

## Molecular Genetics

### **DNA Structure** – Deoxyribonucleic Acid

<https://team.genetics.utah.edu/content/basics/dna> – What is DNA.

#### Discovery of DNA

- In 1869, Miescher looked at pus cells
- Found that nuclei of pus cells contain large amounts of a substance that was not protein
- He called the substance nuclein
  - o Phosphorus-rich

### **DNA Structure – 3 Main Components**

#### 1) Deoxyribose Sugar

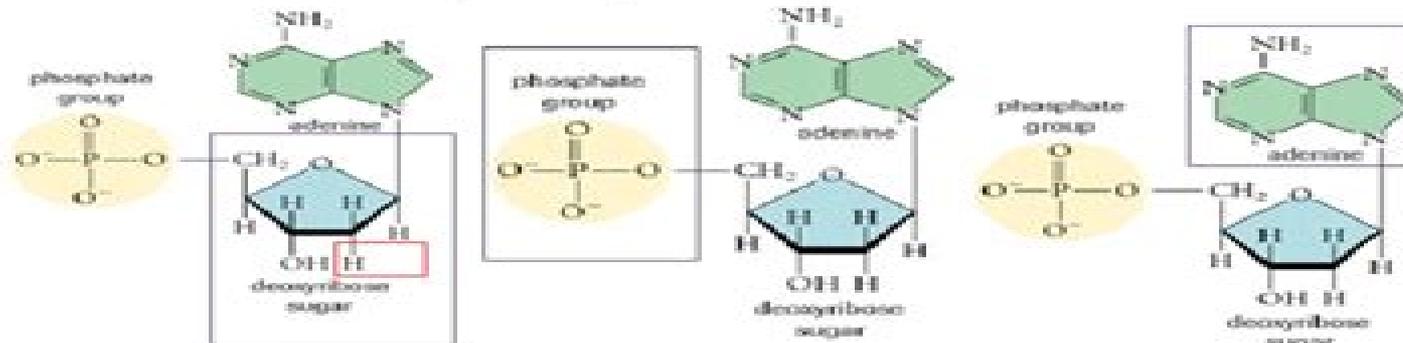
- o 5-C sugar molecule that lost an oxygen from a hydroxyl group on its 2' Carbon

#### 2) Phosphate Group

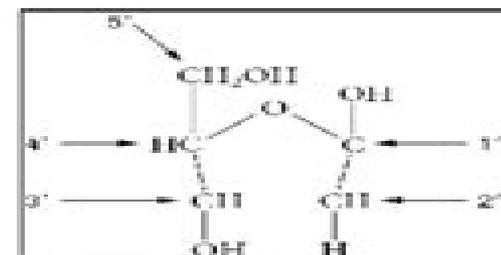
- o 4 oxygen atoms surrounding a central phosphorus atom
- o Found in the backbone of DNA.

#### 3) Nitrogenous Base

- o An alkaline, cyclic molecule containing Nitrogen
- o Either adenine, guanine, cytosine, or thymine



- Together these three components are called a nucleotide
  - o A 5-C sugar with a nitrogenous base attached to its 1' carbon (glycosyl bond)
  - o And a phosphate group attached to its 5' carbon



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**Victor M. Corman**



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